

2/8/02

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Re: 09/888291 US 5,754,023

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**If more searching or explanation is needed, please
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**Thanks,
Darcy Bates
STIC-EIC2800
306-5419
CP4-9C 18**

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*Pat. No. 37374, ****RE 37,374**◆ GET 1st DRAWING SHEET OF 15

September 18, 2001

Gyro-stabilized platforms for force-feedback applications

INVENTOR: Roston, Gerald P., Erie, Pennsylvania
Jacobus, Charles J., Ann Arbor, Michigan**ASSIGNEE-AT-ISSUE:** Cybernet Haptic Systems Corporation, San Jose, California [02] United States Company or Corporation**APPL-NO:** 452,682 (Series 9)**FILED:** November 30, 1999**REL-US-DATA:**

Reissue of:

Patent No.:	5,754,023
Issued:	May 19, 1998
Appl. No.:	8-736,016
Filed:	October 22, 1996

Provisional Application Ser. No. 60-005,861, October 26, 1995 pending

INT-CL: [7] G05B 13#02; B25J 9#00**US-CL:** 318#561; 318#568.11; 318#649**CL:** 318**SEARCH-FLD:** 318#561, 566, 567, 568.1, 568.11, 628, 648, 649; 414#4, 5**REF-CITED:****U. S. PATENT DOCUMENTS**

<u>3,919,691</u>	11/1975	* Noll	340#172.5
<u>4,443,952</u>	4/1984	* Schulien et al.	33#324
<u>4,601,206</u>	7/1986	* Watson	73#514
<u>4,787,051</u>	11/1988	* Olson	364#518
<u>4,795,296</u>	1/1989	* Jau	414#5
<u>4,839,838</u>	6/1989	* LaBiche et al.	364#709.11
<u>4,868,549</u>	9/1989	* Affinito et al.	340#710

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patno=37374

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*Pat. No. 5754023, ****5,754,023**◆ GET 1st DRAWING SHEET OF 14

May 19, 1998

Gyro-stabilized platforms for force-feedback applications

REISSUE: This Patent was reissued on Sep. 18, 2001 as Reissue Patent Re 37,374.

Reissue Application filed Jun. 21, 2001 (O.G. Aug. 28, 2001) Ex. Gp.: 2837; Re. S.N. 09/888,291

Reissue Application filed Nov. 30, 1999 (O.G. Feb. 15, 2000) Ex. Gp.: 2837; Re. S.N. 09/452,682

INVENTOR: Roston, Gerald P., Whitmore Lake, Michigan
Jacobus, Charles J., Ann Arbor, Michigan**ASSIGNEE-AT-ISSUE:** Cybernet Systems Corporation, Ann Arbor, Michigan (02)**ASSIGNEE-AFTER-ISSUE:** Date Transaction Recorded: Feb. 25, 1999
ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).
CYBERNET HAPTIC SYSTEMS CORPORATION 727 AIRPORT BLVD. ANN ARBOR, MICHIGAN 48108
Reel & Frame Number: 009570/0037**APPL-NO:** 736,016**FILED:** Oct. 22, 1996**INT-CL:** [6] G05B 13#02; B25J 9#00**US-CL:** 318#561; 318#568.11; 318#649;**CL:** 318;**SEARCH-FLD:** 318#561, 567, 568.1, 568.11, 566, 628, 648, 649; 414#4, 5**REF-CITED:**

U.S. PATENT DOCUMENTS

4,443,952	4/1984 *	Schulien et al.	
5,389,865	2/1995 *	Jacobus et al.	318#568.11
5,481,914	1/1996 *	Ward	73#504.16
5,577,981	11/1996 *	Jarvik	482#4

PRIM-EXMR: Ro, Bentsu**LEGAL-REP:** Gifford, Krass, Groh, Sprinkle, Patmore, Anderson & Citkowski

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?nbr /pn usre37374

4 1 USRE37373
5 1 USRE37374
6 1 USRE37375
** SS 2: Results 1

1/1 PLUSPAT - (C) QUESTEL-ORBIT
PN - USRE37374 E1 20010918 [USRE37374]
TI - (E1) Gyro-stabilized platforms for force-feedback applications
PA - (E1) CYBERNET HAPTIC SYSTEMS CORP (US)
IN - (E1) JACOBUS CHARLES J (US); ROSTON GERALD P (US)
AP - US45268299 19991130 [1999US-0452682]
PR - US45268299 19991130 [1999US-0452682]
- US73601696 19961022 [1996US-0736016]
- US586195P 19951026 [1995US-P005861]
IC - (E1) B25J-009/00 G05B-013/02
PCL - ORIGINAL (O) : 318561000; CROSS-REFERENCE (X) : 318568110 318649000
DT - Basic
STG - (E1) Reissue Patent
UP - 2001-39

1/1 LGST - (C) LEGSTAT
PN - US 37374 [USRE37374]
AP - US 452682/99 19991130 [1999US-0452682]
DT - US-E
ACT - 19991130 US/AE-A
APPLICATION DATA (PATENT)
{US 452682/99 19991130 [1999US-0452682]}
- 20010918 US/E1 [+]
REISSUE (PRE-GRANT)
UP - 2001-40

1/1 PAST - (C) PAST
AN - 200138-001514
PN - 5754023 A [US5754023]
DT - A (UTILITY)
OG - 2001-09-18
CO - RE
ACT - REISSUE PATENT
SH - REISSUE PATENT
RL - USRE37374

2/08/02 us 5754023 09/888291

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Search statement 1

?us5754023/pn

** SS 1: Results 1

Search statement 2

?prt fu legalall max

1/1 PLUSPAT - (C) QUESTEL-ORBIT- image
PN - US5754023 A 19980519 [US5754023]
TI - (A) Gyro-stabilized platforms for force-feedback applications
PA - (A) CYBERNET SYSTEMS CORP (US)
IN - (A) ROSTON GERALD P (US); JACOBUS CHARLES J (US)
AP - US73601696 19961022 [1996US-0736016]
PR - US586195P 19951026 [1995US-P005861]
- US73601696 19961022 [1996US-0736016]
IC - (A) B25J-009/00 G05B-013/02
EC - B25J-009/16T4
- G05B-013/04B
PCL - ORIGINAL (O) : 318561000; CROSS-REFERENCE (X) : 318568110 318649000
DT - Basic
CT - US4443952; US5389865; US5481914; US5577981
STG - (A) United States patent
AB - Force feedback in large, immersive environments is provided by device which a gyro- stabilization to generate a fixed point of leverage for the requisite forces and/or torques. In one embodiment, one or more orthogonally oriented rotating gyroscopes are used to provide a stable platform to which a force-reflecting device can be mounted, thereby coupling reaction forces to a user without the need for connection to a fixed frame. In one physical realization, a rigid handle or joystick is directly connected to the three-axis stabilized platform and using an inventive control scheme to modulate motor torques so that only the desired forces are felt. In an alternative embodiment, a reaction sphere is used to produce the requisite inertial stabilization. Since the sphere is capable of providing controlled torques about three arbitrary, linearly independent axes, it can be used in place of three reaction wheels to provide three-axis stabilization for a variety of space-based and terrestrial applications.

1/1 LGST - (C) LEGSTAT
PN - US 5754023 [US5754023]
AP - US 736016/96 19961022 [1996US-0736016]
DT - US-P
ACT - 19961022 US/AE-A
APPLICATION DATA (PATENT)
{US 736016/96 19961022 [1996US-0736016]}

Stic-EIC2800 CP4-9C18 Darcy Bates

2/08/02 us 5754023 09/888291

- 19980519 US/A
PATENT
- 19990225 US/AS02
ASSIGNMENT OF ASSIGNOR'S INTEREST
CYBERNET HAPTIC SYSTEMS CORPORATION 727 AIRPORT BLVD. ANN ARBOR,
MICHIGAN 48108 * CYBERNET SYSTEMS CORPORATION : 19990222
- 20000215 US/RF
REISSUE APPLICATION FILED
19991130
- 20010828 US/RF
REISSUE APPLICATION FILED
20010621
- UP - 2001-40

1/1 CRXX - (C) CLAIMS/RRX

AN - 2981793

PN - 5,754,023 A 19980519 [US5754023]

PA - Cybernet Systems Corp

PT - E (Electrical)

ACT - 19990225 REASSIGNED

ASSIGNMENT OF ASSIGNOR'S INTEREST

Assignor: CYBERNET SYSTEMS CORPORATION DATE SIGNED: 02/22/1999

Assignee: CYBERNET HAPTIC SYSTEMS CORPORATION 727 AIRPORT BLVD. ANN
ARBOR, MICHIGAN 48108

Reel 009570/Frame 0037

Contact: CYBERNET SYSTEMS CORPORATION CHARLES JACOBUS 727 AIRPORT
BLVD. ANN ARBOR, MI 48108

- 19991123 REASSIGNED
ASSIGNMENT OF ASSIGNOR'S INTEREST

Assignor: ROSTON, GERALD P. DATE SIGNED: 11/04/1999
JACOBUS, CHARLES J DATE SIGNED: 11/12/1999

Assignee: CYBERNET HAPTIC SYSTEMS CORPORATION 2158 PARAGON DRIVE SAN
JOSE, CALIFORNIA 95131

Reel 010395/Frame 0372

Contact: HICKMAN STEPHENS & COLEMAN, LLP PAUL L. HICKMAN PO BOX 52037
PALO ALTO, CA 94303-0746

- 19991130 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20000215
REISSUE REQUEST NUMBER: 09/452682
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2837

Reissue Patent Number:

- 20010621 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20010828
REISSUE REQUEST NUMBER: 09/888291
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2837

2/08/02 us 5754023 09/888291

Reissue Patent Number:

UP - 1999-27
UACT- 2001-08-28
URAS- 2000-12-26

1/3 PAST - (C) PAST
AN - 200138-001514
PN - 5754023 A [US5754023]
DT - A (UTILITY)
OG - 2001-09-18
CO - RE
ACT - REISSUE PATENT
SH - REISSUE PATENT
RL - USRE37374

2/3 PAST - (C) PAST
AN - 200135-001401
PN - 5754023 A [US5754023]
DT - A (UTILITY)
OG - 2001-08-28
CO - REA
ACT - REISSUE APPLICATION FILED
SH - REISSUE APPLICATION FILED

3/3 PAST - (C) PAST
AN - 200007-001089
PN - 5754023 A [US5754023]
DT - A (UTILITY)
OG - 2000-02-15
CO - REA
ACT - REISSUE APPLICATION FILED
SH - REISSUE APPLICATION FILED

Search statement 2

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1 Patent Groups
** SS 1: Results 2

Search statement 2

?famstate nonstop

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us 5754023

09/888291

1/2 INPADOC - (C) INPADOC

PN - US 37374 E1 20010918 [US--37374]
TI - GYRO-STABILIZED PLATFORMS FOR FORCE-FEEDBACK APPLICATIONS
IN - ROSTON GERALD P [US]; JACOBUS CHARLES J [US]
PA - CYBERNET HAPTIC SYSTEMS CORP [US]
AP - US 452682/99-A 19991130 [1999US-0452682]
PR - US 452682/99-A 19991130 [1999US-0452682]
- US 736016/96-A5 19961022 [1996US-0736016]
- US 5861/95-P 19951026 [1995US-P005861]
IC - G05B-013/02; B25J-009/00

2/2 INPADOC - (C) INPADOC

PN - US 5754023 A 19980519 [US5754023]
TI - GYRO-STABILIZED PLATFORMS FOR FORCE-FEEDBACK APPLICATIONS
IN - ROSTON GERALD P [US]; JACOBUS CHARLES J [US]
PA - CYBERNET SYSTEMS CORP [US]
AP - US 736016/96-A 19961022 [1996US-0736016]
PR - US 736016/96-A 19961022 [1996US-0736016]
- US 5861/95-P 19951026 [1995US-P005861]
IC - G05B-013/02; B25J-009/00

1/1 LEGALI - (C) LEGSTAT

PN - US 5754023 [US5754023]
AP - US 736016/96 19961022 [1996US-0736016]
DT - US-P
ACTE- 19961022 US/AE-A
APPLICATION DATA (PATENT)
{US 736016/96 19961022 [1996US-0736016]}
- 19980519 US/A
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- 19990225 US/AS02
ASSIGNMENT OF ASSIGNOR'S INTEREST
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Terms: **5754023** or **5,754,023** ([Edit Search](#))

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- ☐ 1. [Business Wire](#), December 15, 1999, Wednesday, 471 words, Cybernet Systems Largest Outside Shareholder in Immersion Corporation, ANN ARBOR, Mich., Dec. 15, 1999
- ☐ 2. [Business Wire](#), May 13, 1999, Thursday, 376 words, I-FORCE is Everywhere Peripheral Manufacturers Embrace I-FORCE, LOS ANGELES
- ☐ 3. [Business Wire](#), March 16, 1999, Tuesday, 697 words, Immersion Corp. Acquires Cybernet Haptic Systems; Combination Creates Force Feedback Powerhouse, SAN JOSE, Calif.
- ☐ 4. [Business Wire](#), March 16, 1999, Tuesday, 431 words, I-FORCE is Everywhere; Peripheral Manufacturers Embrace I-FORCE, SAN JOSE, Calif.

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Terms: **5754023** or **5,754,023** ([Edit Search](#))

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Date/Time: Friday, February 8, 2002 - 10:51 AM EST

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Business Wire

December 15, 1999, Wednesday

DISTRIBUTION: Business Editors & High-Tech Writers**LENGTH:** 471 words**HEADLINE:** Cybernet Systems Largest Outside Shareholder in Immersion Corporation**DATELINE:** ANN ARBOR, Mich., Dec. 15, 1999**BODY:**

Cybernet Systems Corporation today noted its position as the largest outside shareholder of Immersion Corporation (Nasdaq:IMMR), a leading provider of tools and technologies that allow users to physically feel their software.

Cybernet's 9.9% ownership stake in the company is a direct result of Immersion's March 1999 acquisition of Cybernet's Force Feedback business and patent portfolio. Cybernet's 1,396,110 shares are worth \$60 million at the \$43 share price, posted at end of day on December 10, 1999. "We're obviously extremely pleased with the demonstrated return on our investment in Immersion Corporation," noted Dr. Charles Jacobus, president and CEO of Cybernet. "As a company focused on developing and commercializing advanced technology, it was important to us to find a strong partner for our Force Feedback technology. It appears that Immersion has been extremely successful in productizing and widely licensing this technology."

Cybernet's innovations related to Force Feedback are embodied in the comprehensive portfolio of intellectual property acquired by Immersion that includes U.S. Patents No. 5,389,865, No. 5,459,382, No. 5,629,594, No. **5,754,023**, No. 5,769,640, No. 5,831,408, No. 5,844,392, and No. 5,822,438 as well as many pending patent applications. Immersion has since licensed this technology to Logitech, Microsoft and many other leading computer software, peripheral and game manufacturers.

Founded in 1993, Immersion Corporation develops hardware and software technologies that enable users to interact with computers using their sense of touch. Immersion's patented technologies, which it calls TouchSense(TM), enable computer peripheral devices to deliver tactile sensations that correspond to on-screen events. Immersion licenses its TouchSense technology to hardware manufacturers for Web, personal computing, entertainment, medical and other applications.

Cybernet Systems Corp. is a profitable, rapidly growing research and development company focused on commercializing technology that combines software and Internet intelligence with man-machine interaction. Cybernet has successfully leveraged its wealth of intellectual property to bring Force Feedback technology to market in the form of game controllers and joysticks, and introduced the first Linux-based Internet appliance software. The company continues to innovate in the areas of Internet medical systems, large-scale distributed network training and gaming and gesture control interface technology. Additional information on Cybernet Systems is available on the web at <http://www.cybernet.com>. CONTACT:

Cybernet Systems

Janice Foster, 734/668-2567

jfoster@cybernet.com

or

Sterling Communications

Rachel Berry, 253/853-5030

rberry@sterlingpr.com URL: <http://www.businesswire.com>

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Business Wire, May 13, 1999

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May 13, 1999, Thursday

DISTRIBUTION: Business Editors/High Tech Writers

LENGTH: 376 words

HEADLINE: I-FORCE is Everywhere Peripheral Manufacturers Embrace I-FORCE

DATeline: LOS ANGELES

BODY:

May 13, 1999--I-FORCE(R), the force feedback technology standard from Immersion(R) Corporation, is on display this week at the Electronic Entertainment Expo in Los Angeles. I-FORCE is the technology that allows joysticks, steering wheels, game pads, flight yokes, mice, and other gaming peripherals to provide realistic FEEL sensations as part of the gaming action. The support of I-FORCE across the gaming industry is quite remarkable at this year's show. In all, there are now 25 brands that produce I-FORCE licensed products including:

-- ACT Labs -- Anko Electronics -- Agiler -- AVB -- Boeder -- CH Products -- Chic -- Genius -- Guillemot -- Happ Controls -- Interactive IO -- KYE -- LMP -- Logitech -- MadCatz -- Mouse Systems -- Padix -- Primax -- Rockfire -- SC&T Int -- SMFC -- Sysgration -- ThrustMaster -- Trust -- Vikings

I-FORCE works by incorporating motors and sophisticated electronics into gaming peripherals. Under the command of the software, the motors push back against the user, simulating the feel of surfaces, liquids, textures, explosions, and countless other sensations. I-FORCE is enhanced by Immersion's patented force feedback co-processor architecture. This proprietary technology allows I-FORCE enabled products to simulate complex feel sensations without slowing the gaming action.

To review the latest updates on the hardware and software support for I-FORCE technology from Immersion Corporation, visit our web site at www.force-feedback.com or call 408-467-1900.

I-FORCE technology is protected by the following US Patents: -0-

4,823,634 - 5,185,561 - 5,220,260 - 5,389,865 - 5,414,337 - 5,459,382
5,559,412 - 5,576,727 - 5,589,854 - 5,623,582 - 5,666,138 - 5,691,898
5,701,140 - 5,721,566 - 5,731,804 - 5,734,373 - 5,739,811 - **5,754,023**
5,767,839 - 5,769,640 - 5,805,140 - 5,825,308 - 5,831,408 - 5,844,392
5,872,438 - 5,880,714


CONTACT: Immersion (Press Relations)
Barry Robbins, 408/467-1900
barry@immerse.com

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Business Wire

March 16, 1999, Tuesday

DISTRIBUTION: Business Editors/High-Tech Writers**LENGTH:** 697 words**HEADLINE:** Immersion Corp. Acquires Cybernet Haptic Systems; Combination Creates Force Feedback Powerhouse**DATELINE:** SAN JOSE, Calif.**BODY:**

Game Developers Conference Booth 1126

March 16, 1999--Immersion Corp. of San Jose, a leading provider of tools and technologies that allow users to physically feel their software, today announced the acquisition of Cybernet Haptic Systems of Ann Arbor, Mich., a subsidiary of Cybernet Systems Corp.

Cybernet has been a leading developer of force feedback systems since 1988 and has pioneered many pivotal technologies for adding feel to mainstream computing environments. This business combination is seen by Immersion as a major milestone in solidifying Immersion's role as the market-leader in feel technology.

"The acquisition of Cybernet is a very exciting step for Immersion," said Dr. Louis Rosenberg, Immersion's president. "Cybernet has been a driving force behind feel simulation for many years -- merging their work with our own will strengthen Immersion's existing as well as launch Immersion into new markets. This as an extremely synergistic business combination."

Dr. Charles Jacobus, president of Cybernet said, "We are looking forward to working with Immersion in the further development of force feedback products and technologies, especially in the Internet and simulation markets."

Cybernet has developed force feedback technologies for many industries, including medical simulation, computer gaming, computer aided design, military simulation, molecular modeling, and automotive engineering.

Their innovations related to feel simulation are embodied in the comprehensive portfolio of intellectual property acquired by Immersion that includes U.S. Patents No. 5,389,865, No. 5,459,382, No. 5,629,594, No. **5,754,023**, No. 5,769,640, No. 5,831,408, No. 5,844,392, and No. 5,822,438 as well as many pending patent applications.

"We are thrilled to add this innovative pool of technology to our I-FORCE and FEELit technology portfolios," said Richard Abramson, director of Litigation and Intellectual Property for Immersion Corp. "This combination of Immersion and Cybernet technologies will enable Immersion to provide our licensees with the world's most diverse and comprehensive range of feel simulation technologies for incorporation into their force feedback peripheral devices."

I-FORCE is the technology unveiled by Immersion in 1995 that turns joysticks, steering wheels, and other computer peripherals into "feel" display devices, allowing users to experience realistic touch sensations. I-FORCE is ideal for computer gaming, enriching software by incorporating feel into the game play experience.

Immersion has licensed I-FORCE to many major makers of home computer gaming peripherals including Logitech, ThrustMaster, CH Products, KYE, SC&T International, ANKO, ACT Labs, Primax, LMP, and others.

Immersion Corp. is also the inventor of the FEELit(R) Mouse, a mouse-style interface that empowers all computer users with the ability to feel their software. From graphic design to surfing the Internet, the FEELit Mouse will fundamentally transform the way people engage their computers, allowing users to take advantage of their natural and informative sense of feel when interacting with software.

For example, the implications of incorporating feel into web applications are vast, from making remote shopping more satisfying, to making educational information more intuitive, to making collaborative design more productive.

Immersion Corp., a privately-held corporation, was founded in 1992 with a mission to develop technologies that add a sense of feel to mainstream computing, enabling users to physically "touch" and "feel" their software. Immersion's technologies address a wide range of applications from computer entertainment and medical simulation, to education and the Internet.

For more information, visit www.force-feedback.com.

CONTACT: Immersion Corp.

Barry Robbins, 408/467-1900


barry@immerse.com

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Business Wire

March 16, 1999, Tuesday

DISTRIBUTION: Business Editors & High-Tech Writers**LENGTH:** 431 words**HEADLINE:** I-FORCE is Everywhere; Peripheral Manufacturers Embrace I-FORCE**DATELINE:** SAN JOSE, Calif.**BODY:**

Game Developers Conference Booth 1126

March 16, 1999--I-FORCE, the force feedback technology standard from Immersion Corporation, is on display this week at the Computer Game Developer show in San Jose.

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-- Anko Electronics	-- Interactive IO	-- Rockfire
-- AVB	-- KYE	-- SC&T Int
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-- Chic	-- MadCatz	-- Trust
-- Genius	-- Mouse Systems	
-- Guillemot	-- Padix	

-0-

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5,576,727 - 5,589,854 - 5,623,582 - 5,666,138 - 5,691,898 5,701,140 - 5,721,566 -
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